



## DRILL STEM TEST REPORT

Prepared For: **Smith Oil Operations**

PO Box 550  
Hutchinson KS 67504

ATTN: Kent Crisler

**13-32-14**

**Canfeild #2**

Start Date: 2003.09.17 @ 07:00:48

End Date: 2003.09.17 @ 15:34:18

Job Ticket #: 16109                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Smith Oil Operations

Canfeild #2

13-32-14

DST # 1

Upper Lansing

2003.09.17





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Smith Oil Operations  
PO Box 550  
Hutchinson KS 67504  
ATTN: Kent Crisler

**Canfeild #2**  
**13-32-14**  
Job Ticket: 16109      **DST#: 1**  
Test Start: 2003.09.17 @ 07:00:48

### Tool Information

Drill Pipe:	Length: 4063.00 ft	Diameter: 3.80 inches	Volume: 56.99 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 56.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4077.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	4108.00 ft			
Interval between Packers:	31.00 ft			
Tool Length:	91.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:  
straddle packer held

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			4063.00	
Hydraulic tool	5.00			4068.00	
Packer	5.00			4073.00	19.00      Bottom Of Top Packer
Packer	4.00			4077.00	
Stubb	1.00			4078.00	
Perforations	1.00			4079.00	
Recorder	0.00	3030	Outside	4079.00	
Perforations	28.00			4107.00	
Recorder	0.00	13265		4107.00	
Blank Off Sub	1.00			4108.00	31.00      Tool Interval
Packer	4.00			4112.00	
Stubb	1.00			4113.00	
Change Over Sub	1.00			4114.00	
Blank Spacing	31.00			4145.00	
Change Over Sub	1.00			4146.00	
Recorder	0.00	11019	Below	4146.00	
Bullnose	3.00			4149.00	41.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>91.00</b>				



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Smith Oil Operations  
PO Box 550  
Hutchinson KS 67504  
ATTN: Kent Crisler

**Canfeild #2**  
**13-32-14**  
Job Ticket: 16109      **DST#: 1**  
Test Start: 2003.09.17 @ 07:00:48

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 55000 ppm	
Viscosity: 43.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.97 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	10% G 40% W 50% M w/trace oil	1.739
186.00	10% G 65% W 25% M	2.609
496.00	5% G 85% W 10% M	6.958

Total Length: 806.00 ft      Total Volume: 11.306 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: RW= .1 @ 98 deg chlorides = 55000

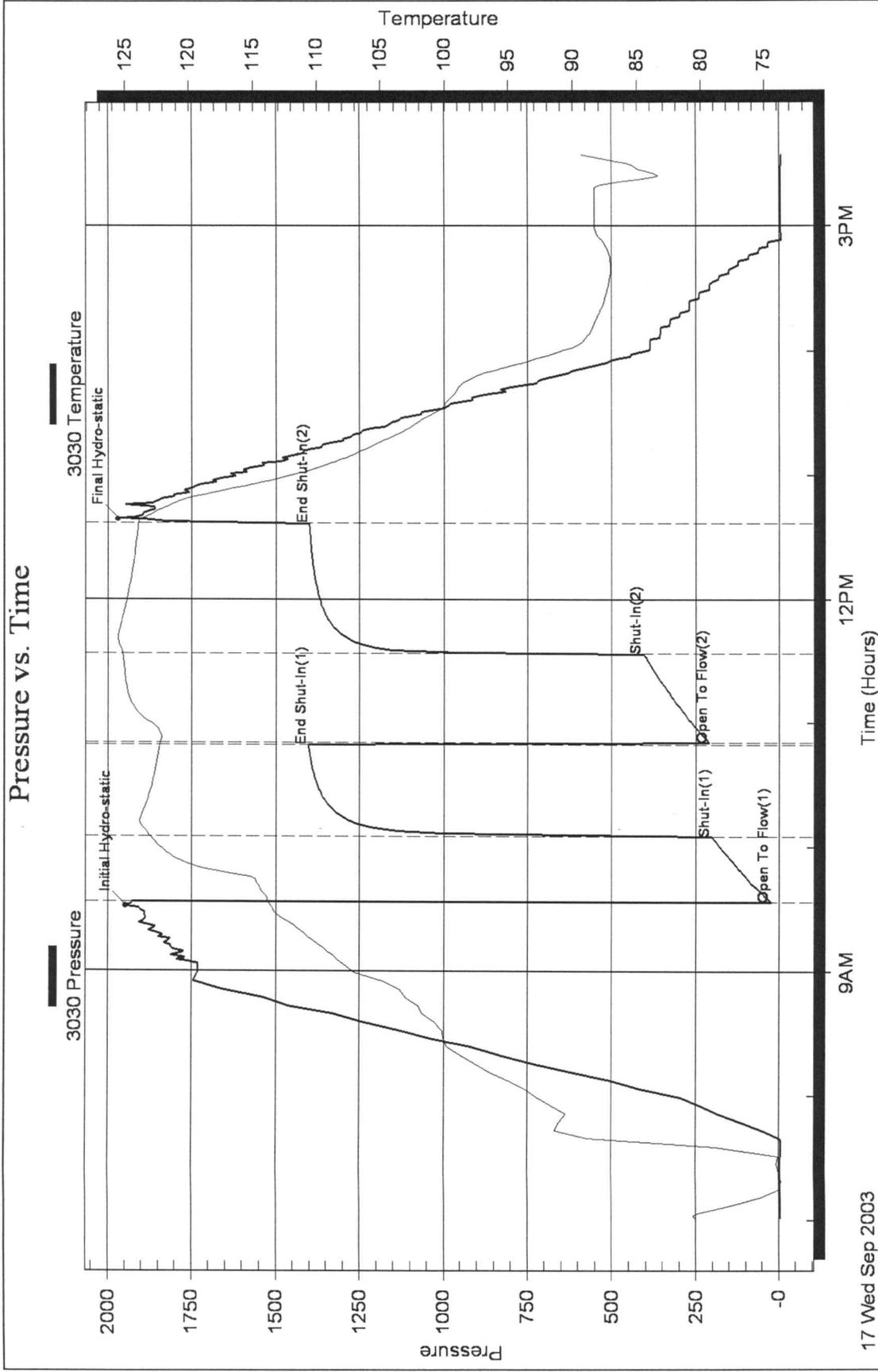
Serial #: 3030

Outside Smith Oil Operations

13-32-14

DST Test Number: 1

### Pressure vs. Time



17 Wed Sep 2003



## DRILL STEM TEST REPORT

Prepared For: **Smith Oil Operations**

PO Box 550  
Hutchinson KS 67504

ATTN: Kent Crisler

**13-32-14**

**Canfeild #2**

Start Date: 2003.09.18 @ 02:18:45

End Date: 2003.09.18 @ 10:39:45

Job Ticket #: 16110                      DST #: 2

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Smith Oil Operations  
PO Box 550  
Hutchinson KS 67504  
ATTN: Kent Crisler

**Canfield #2**

**13-32-14**

Job Ticket: 16110

**DST#: 2**

Test Start: 2003.09.18 @ 02:18:45

### GENERAL INFORMATION:

Formation: **Lansing "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:18:45

Time Test Ended: 10:39:45

Test Type: Conventional Bottom Hole

Tester: Blake Wallace

Unit No: 20

Interval: **4257.00 ft (KB) To 4274.00 ft (KB) (TVD)**

Reference Elevations: 1848.00 ft (KB)

Total Depth: 4274.00 ft (KB) (TVD)

1836.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

**Serial #: 3030**

**Inside**

Press@RunDepth: 64.49 psig @ 4259.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2003.09.18

End Date:

2003.09.18

Last Calib.:

1899.12.30

Start Time: 02:18:49

End Time:

10:39:44

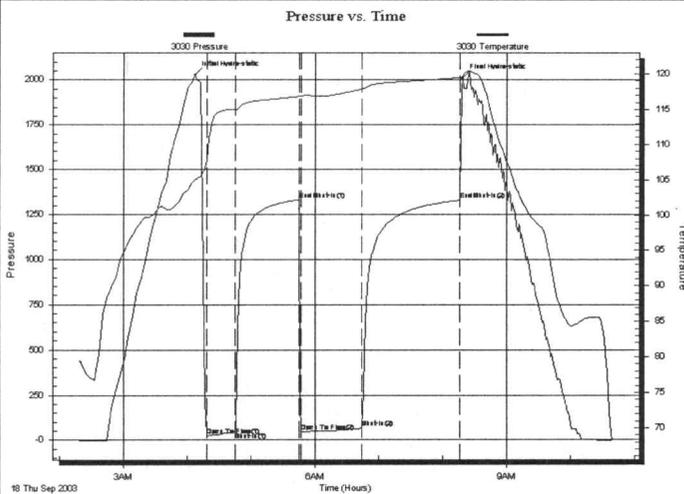
Time On Btm:

2003.09.18 @ 04:07:45

Time Off Btm:

2003.09.18 @ 08:18:00

**TEST COMMENT:** IF-strong blow BOB 30 sec GTS 17 min  
IS-no blow back  
FF-strong blow BOB as soon as open  
FS-no blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2029.00	105.00	Initial Hydro-static
11	21.09	107.76	Open To Flow (1)
38	43.08	115.01	Shut-In(1)
98	1332.36	116.85	End Shut-In(1)
100	45.01	116.83	Open To Flow (2)
156	64.49	117.87	Shut-In(2)
248	1328.81	119.46	End Shut-In(2)
251	2011.58	119.65	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
93.00	10% G 30% W 60% M	1.30
62.00	10% G 60% W 30% M	0.87

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	3.00	6.51
Last Gas Rate	0.13	2.00	6.14
Max. Gas Rate	0.13	12.00	9.88



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Smith Oil Operations  
PO Box 550  
Hutchinson KS 67504  
ATTN: Kent Crisler

**Canfeild #2**  
**13-32-14**  
Job Ticket: 16110      **DST#: 2**  
Test Start: 2003.09.18 @ 02:18:45

### Tool Information

Drill Pipe:	Length: 4242.00 ft	Diameter: 3.80 inches	Volume: 59.50 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 63000.00 lb
			<u>Total Volume: 59.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4257.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4235.00	
Hydraulic tool	5.00			4240.00	
Jars	5.00			4245.00	
Safety Joint	3.00			4248.00	
Packer	5.00			4253.00	27.00      Bottom Of Top Packer
Packer	4.00			4257.00	
Stubb	1.00			4258.00	
Perforations	1.00			4259.00	
Recorder	0.00	3030	Inside	4259.00	
Perforations	12.00			4271.00	
Recorder	0.00			4271.00	
Bullnose	3.00			4274.00	17.00      Bottom Packers & Anchor

**Total Tool Length: 44.00**



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TESTING, INC.

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**FLUID SUMMARY**

Smith Oil Operations  
PO Box 550  
Hutchinson KS 67504  
ATTN: Kent Crisler

**Canfeild #2**  
**13-32-14**  
Job Ticket: 16110      **DST#: 2**  
Test Start: 2003.09.18 @ 02:18:45

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	34000 ppm
Viscosity: 43.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
93.00	10% G 30% W 60% M	1.305
62.00	10% G 60% W 30% M	0.870

Total Length: 155.00 ft      Total Volume: 2.175 bbl

Num Fluid Samples: 1      Num Gas Bombs: 0      Serial #:

Laboratory Name: Caraway      Laboratory Location: Liberal, KS

Recovery Comments: RW= .22 @ 70 deg chlorides= 34000



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Smith Oil Operations

**Canfeild #2**

PO Box 550  
Hutchinson KS 67504

**13-32-14**

Job Ticket: 16110

**DST#: 2**

ATTN: Kent Crisler

Test Start: 2003.09.18 @ 02:18:45

### Gas Rates Information

Temperature: 59 deg C

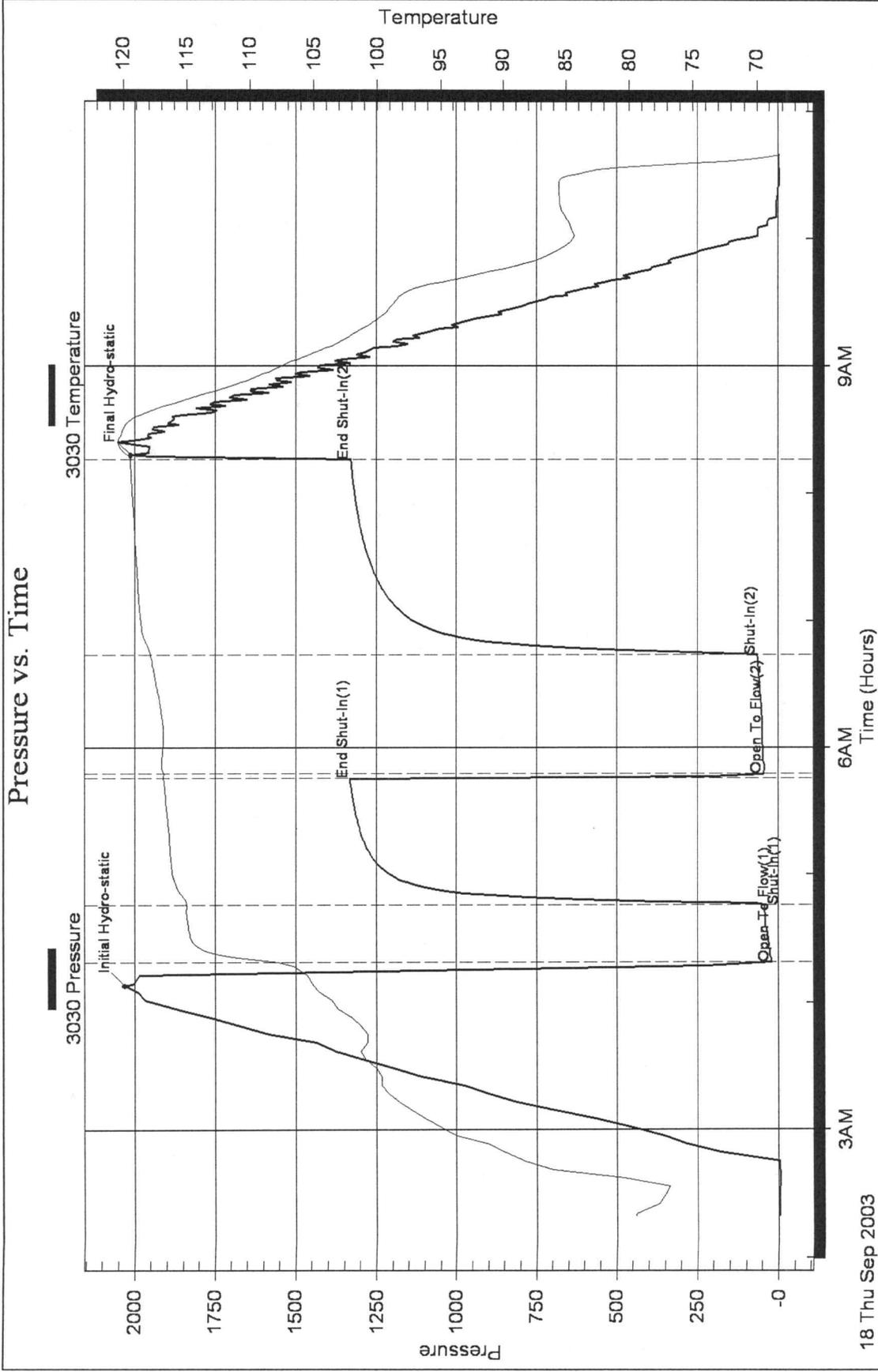
Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
1	20	0.13	3.00	6.51
1	30	0.13	5.00	7.26
2	10	0.13	12.00	9.88
2	20	0.13	8.00	8.38
2	30	0.13	5.00	7.26
2	40	0.13	4.00	6.89
2	50	0.13	3.00	6.51
2	60	0.13	2.00	6.14

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Smith Oil Operations**

PO Box 550  
Hutchinson KS 67504

ATTN: Kent Crisler

**13-32-14**

**Canfeild #2**

Start Date: 2003.09.19 @ 09:25:28

End Date: 2003.09.19 @ 18:16:28

Job Ticket #: 16111                      DST #: 3

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Smith Oil Operations  
PO Box 550  
Hutchinson KS 67504  
ATTN: Kent Crisler

**Canfeild #2**

**13-32-14**

Job Ticket: 16111

**DST#: 3**

Test Start: 2003.09.19 @ 09:25:28

### GENERAL INFORMATION:

Formation: **Mississippi**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 11:46:43  
Time Test Ended: 18:16:28

Test Type: Conventional Bottom Hole  
Tester: Blake Wallace  
Unit No: 20

Interval: **4527.00 ft (KB) To 4592.00 ft (KB) (TVD)**  
Total Depth: 4592.00 ft (KB) (TVD)  
Hole Diameter: 7.78 inches Hole Condition: Good

Reference Elevations: 1848.00 ft (KB)  
1836.00 ft (CF)  
KB to GR/CF: 12.00 ft

### Serial #: 3030

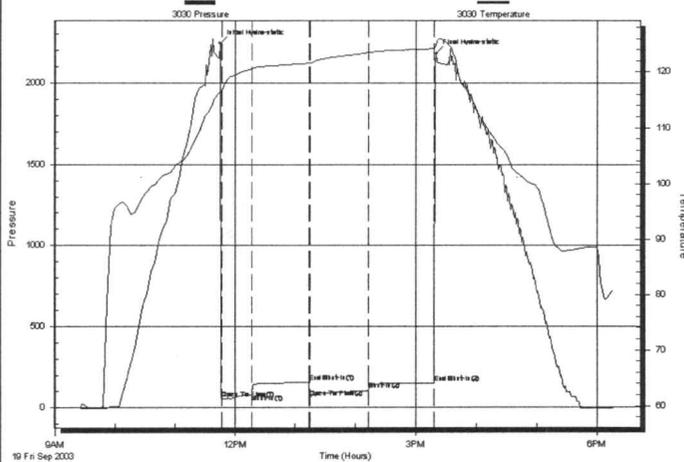
### Inside

Press@RunDepth: 106.43 psig @ 4529.00 ft (KB)  
Start Date: 2003.09.19 End Date: 2003.09.19  
Start Time: 09:25:32 End Time: 18:16:28

Capacity: 7000.00 psig  
Last Calib.: 1899.12.30  
Time On Btm: 2003.09.19 @ 11:44:43  
Time Off Btm: 2003.09.19 @ 15:19:43

TEST COMMENT: IF-strong blow BOB 1 min GTS 8 min  
IS-surface blow back  
FF-strong blow BOB as soon as open  
FSI-blow back built to 3/4 inch

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2243.88	116.40	Initial Hydro-static
2	54.00	116.66	Open To Flow (1)
32	81.98	120.60	Shut-In(1)
90	153.95	121.63	End Shut-In(1)
90	62.95	121.63	Open To Flow (2)
149	106.43	123.49	Shut-In(2)
213	151.75	124.20	End Shut-In(2)
215	2181.53	124.94	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
77.00	5% G 95% M	1.08
124.00	10% G 10% W 80% M	1.74

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	6.00	7.63
Last Gas Rate	0.13	10.00	9.13
Max. Gas Rate	0.13	16.00	11.38



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Smith Oil Operations  
PO Box 550  
Hutchinson KS 67504  
ATTN: Kent Crisler

**Canfeild #2**  
**13-32-14**  
Job Ticket: 16111      **DST#: 3**  
Test Start: 2003.09.19 @ 09:25:28

### Tool Information

Drill Pipe:	Length: 4533.00 ft	Diameter: 3.80 inches	Volume: 63.59 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 63.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4527.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	92.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4505.00	
Hydraulic tool	5.00			4510.00	
Jars	5.00			4515.00	
Safety Joint	3.00			4518.00	
Packer	5.00			4523.00	27.00      Bottom Of Top Packer
Packer	4.00			4527.00	
Stubb	1.00			4528.00	
Perforations	1.00			4529.00	
Recorder	0.00	3030	Inside	4529.00	
Perforations	15.00			4544.00	
Change Over Sub	1.00			4545.00	
Blank Spacing	31.00			4576.00	
Change Over Sub	1.00			4577.00	
Perforations	12.00			4589.00	
Recorder	0.00			4589.00	
Bullnose	3.00			4592.00	65.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>92.00</b>				



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Smith Oil Operations

**Canfeild #2**

PO Box 550  
Hutchinson KS 67504

**13-32-14**

Job Ticket: 16111

**DST#: 3**

ATTN: Kent Crisler

Test Start: 2003.09.19 @ 09:25:28

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

25000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
77.00	5% G 95% M	1.080
124.00	10% G 10% W 80% M	1.739

Total Length: 201.00 ft      Total Volume: 2.819 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: RW= .22 @ 90 deg chlorides = 25000



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Smith Oil Operations  
PO Box 550  
Hutchinson KS 67504  
ATTN: Kent Crisler

**Canfeild #2**  
**13-32-14**  
Job Ticket: 16111      **DST#: 3**  
Test Start: 2003.09.19 @ 09:25:28

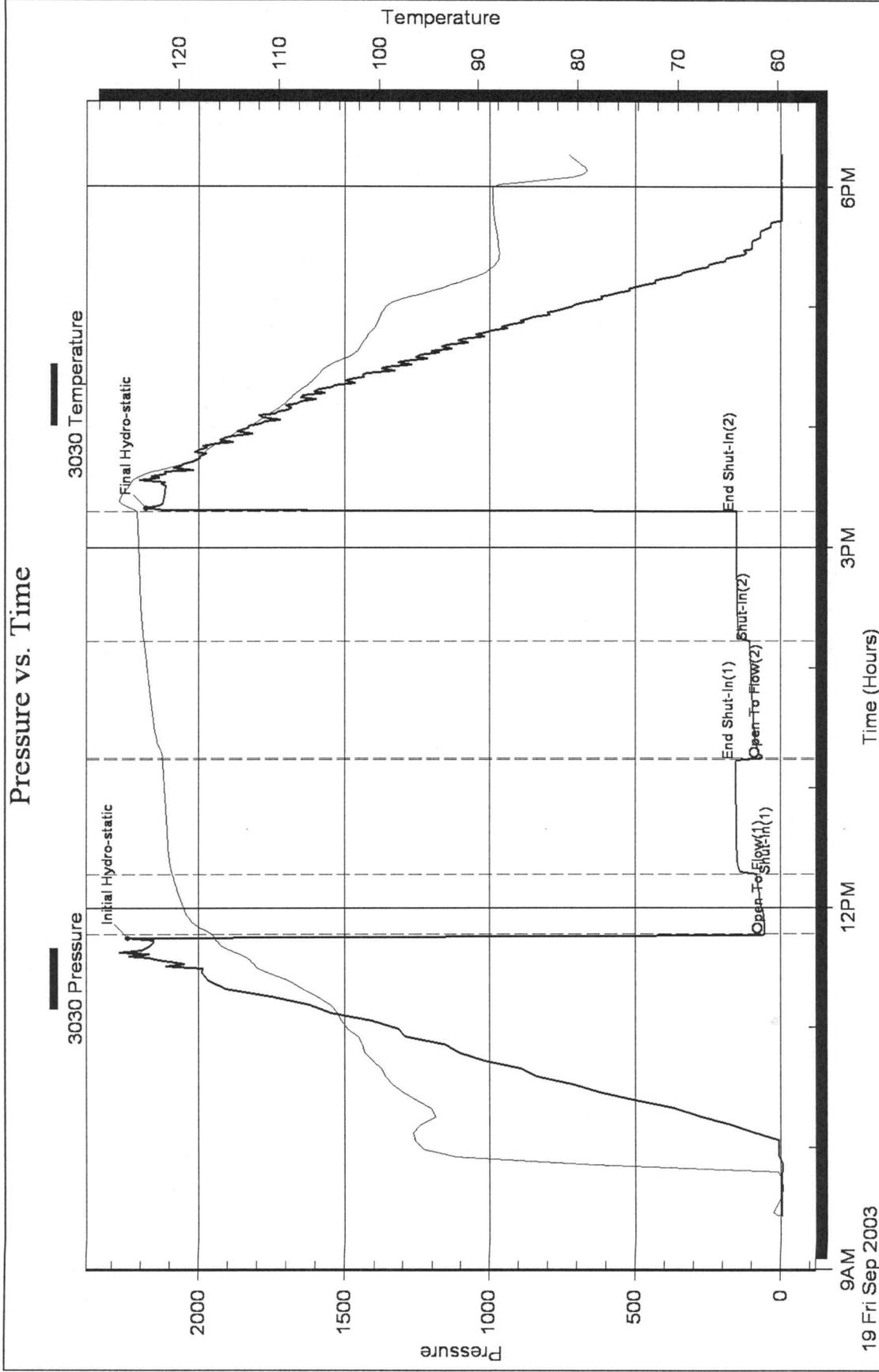
### Gas Rates Information

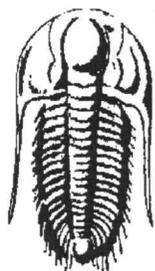
Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
1	10	0.13	6.00	7.63
1	20	0.13	14.00	10.63
1	30	0.13	16.00	11.38
2	10	0.13	14.00	10.63
2	20	0.13	15.00	11.00
2	30	0.13	14.00	10.63
2	40	0.13	13.00	10.26
2	50	0.13	11.00	9.51
2	60	0.13	10.00	9.13

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Smith Oil Operations**

PO Box 550  
Hutchinson KS 67504

ATTN: Kent Crisler

**13-32-14**

**Canfeild #2**

Start Date: 2003.09.20 @ 22:52:34

End Date: 2003.09.21 @ 08:37:32

Job Ticket #: 17104                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Smith Oil Operations

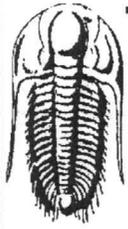
Canfeild #2

13-32-14

DST # 4

VIOLA

2003.09.20



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Smith Oil Operations  
PO Box 550  
Hutchinson KS 67504  
ATTN: Kent Crisler

**Canfeild #2**

**13-32-14**

Job Ticket: 17104

**DST#: 4**

Test Start: 2003.09.20 @ 22:52:34

## GENERAL INFORMATION:

Formation: **VIOLA**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:29:02

Time Test Ended: 08:37:32

Test Type: Conventional Straddle

Tester: Darren L.Amerine

Unit No: 19

Interval: **4825.00 ft (KB) To 4877.00 ft (KB) (TVD)**

Reference Elevations: 1848.00 ft (KB)

Total Depth: 4888.00 ft (KB) (TVD)

1836.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

## Serial #: 2346

Inside

Press@RunDepth: 21.93 psig @ 4832.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2003.09.20

End Date:

2003.09.21

Last Calib.: 2003.09.21

Start Time: 22:52:34

End Time:

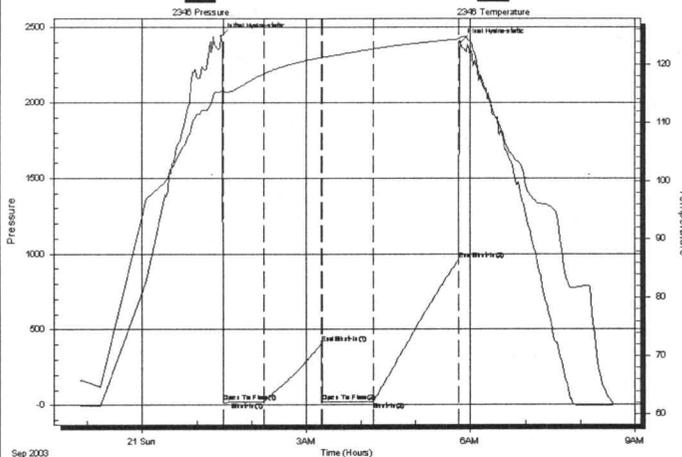
08:37:32

Time On Btm: 2003.09.21 @ 01:26:32

Time Off Btm: 2003.09.21 @ 05:48:47

TEST COMMENT: IF:Weak blow built to b.o.b in 41 mins.  
IS:Bled down n for 2 mins.no blow back.  
FF:Strong blow b.o.b in 30 sec.  
FS:Bled down n for 5 mins.no blow back.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2439.08	115.38	Initial Hydro-static
3	22.89	115.50	Open To Flow (1)
47	21.79	118.37	Shut-In(1)
110	405.65	121.17	End Shut-In(1)
111	17.90	121.27	Open To Flow (2)
167	21.93	122.69	Shut-In(2)
261	959.02	124.38	End Shut-In(2)
263	2402.13	124.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	3800'of gip	0.00
30.00	SGCM 10%gas 90%mud	0.42

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Smith Oil Operations  
PO Box 550  
Hutchinson KS 67504  
ATTN: Kent Crisler

**Canfeild #2**  
**13-32-14**  
Job Ticket: 17104      **DST#: 4**  
Test Start: 2003.09.20 @ 22:52:34

**Tool Information**

Drill Pipe:	Length: 4818.00 ft	Diameter: 3.80 inches	Volume: 67.58 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 67.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4825.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	4877.00 ft			
Interval between Packers:	52.00 ft			
Tool Length:	92.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4797.00	
Shut In Tool	5.00			4802.00	
Hydraulic tool	5.00			4807.00	
Jars	5.00			4812.00	
Safety Joint	3.00			4815.00	
Packer	5.00			4820.00	29.00      Bottom Of Top Packer
Packer	5.00			4825.00	
Stubb	1.00			4826.00	
Anchor	6.00			4832.00	
Recorder	0.00	2346	Inside	4832.00	
Blank Spacing	32.00			4864.00	
Anchor	9.00			4873.00	
Recorder	0.00	13769	Outside	4873.00	
Anchor	4.00			4877.00	52.00      Tool Interval
Packer	0.00			4877.00	
Stubb	1.00			4878.00	
Anchor	8.00			4886.00	
Recorder	0.00	10991		4886.00	
Bullnose	2.00			4888.00	11.00      Bottom Packers & Anchor

**Total Tool Length: 92.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Smith Oil Operations  
PO Box 550  
Hutchinson KS 67504  
ATTN: Kent Crisler

**Canfeild #2**  
**13-32-14**  
Job Ticket: 17104      **DST#: 4**  
Test Start: 2003.09.20 @ 22:52:34

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 12.75 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.70 ohm.m	Gas Cushion Pressure: psig		
Salinity: 8000.00 ppm			
Filter Cake: 0.32 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
0.00	3800'of gip	0.000
30.00	SGCM 10%gas 90%mud	0.421

Total Length: 30.00 ft      Total Volume: 0.421 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

### Pressure vs. Time

